



UPASANA MUKHERJEE (Associate)

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Key Competency Areas

Tools & Technologies

- Python
- Azure DevOps
- Azure Cognitive Services
- NoSQL (Cosmos)
- SQL
- PowerShell
- Gen AI:-
- Prompt Engineering, Azure Open AI models (GPT 4, GPT TURBO 3.5), RAG based architecture, Multimodal LLMs, LangChain, Agentic Framework (LangGraph), Azure Document Intelligence, Azure Bot Service, Azure Image service
- Cloud & AI Platforms: Azure

Industries: Insurance

Education

Bachelor of Science(Computer Science(H)) 2021 -University of Calcutta – 8.10

Profile Summary

A passionate Gen AI/LLM Engineer specialized in developing and deploying machine learning models, with a strong focus on Natural Language Processing (NLP) and Large Language Models

Key Engagements in Cognizant or Previous Company

- Successfully managed and delivered projects for two major clients, with 2+ years dedicated to one which was an EA initiative where I provided architectural support by designing solutions, doing the POCs and then Development and the next 1.7+ years for the other client and for internal solutions.
- I worked with Azure AI services like ADI, Azure search services, Form Recognizer, GPT turbo 3.5, GPT 4, Bot service to design Gen AI based tools. While doing these projects I gained good knowledge in Azure OpenAI services, prompt engineering, LangGraph Agentic implementation, langchain, and data chunking. Managed the entire Azure subscription for the business unit, overseeing all internal R&D work. Demonstrated expertise in cloud infrastructure management, ensuring optimal performance and resource allocation for research and development projects.

Sample Projects in Cognizant/Previous Company

LTIMINDTREE (2021-Oct– 2025-July)

Automated BA & QA TOOL (INS North American customer)

- Generate User stories and for those relevant test cases and test data by analyzing Business Requirement documents and other relevant documents (ISO CIRCULARS) and forms using ADI, LLM, LangGraph, Azure Logic APP, Fast API, Chunking, Azure AI search as Vector DB, Reflective Agents and 365 outlook email boxes. Hosted in Azure.
- Whenever a specific Mailbox receives an email with all the BRD docs and other ISO circulars a logic app gets triggered which eventually creates the required user stories by analyzing those docs with test cases and test data.

Code/ Script Auto Fix Tool (POC FOR Guidewire tool)

- For specific code changes in required files from a workspace and then push into that workspace(git/ado).
- Say there are 200+ files and there is an instruction document where it is written that in which files what needs to be changed.
- By analyzing those using Azure open AI service, recursive chunking, few shot prompting and Lang Graph it does the required job.
- Hosted in Azure.

Azure Subscription Management (BU's Internal Subscription)

- Managed the entire BU's Azure subscription which is used for internal use cases and customer POCs.
- Handling resource creation, allocation, and deployments.
- Cost Optimization.

Acord /loss run Extractor (INS North American customer)

- Used ADI for extraction followed by LLM(Gpt4) calls followed by post processing logics.
- RAG based architecture followed by langGraph agentic framework.
- Fuzzy matching done after the extraction in post processing

CIAM Implementation (INS North American customer)

- Used ADB2C service from azure to enable access for external vendors of customer GitHub.
- Write policies for external user flows.
- Enabling sso.

Courses and Certifications	Employment History
AI 900 AZ 900 AI Agents in LangGraph (DeepLearning AI)	Associate – Gen AI (Full-Time) July 2025 – Present <i>Cognizant</i> • Joined on 21 st July 2025. Currently looking for Gen Ai based work opportunity.
Rewards & Recognitions	Professional Experience
<ul style="list-style-type: none"> Secured 2nd position in One of the organization-level hackathons. Secured 1st Position in Techathon Received the prestigious Star Reward for individual contributions at LTIMindtree. Earned multiple performance badges, and awards for successful project delivery. <p><i>Publications:</i></p> <ul style="list-style-type: none"> Emerging Approach for Detection of Financial Frauds Using Machine Learning -Emerging Approach for Detection of Financial Frauds Using Machine Learning Request PDF Pharmacy Impact on Covid-19 Vaccination Progress Using Machine Learning Approach - Pharmacy Impact on Covid-19 Vaccination Progress Using Machine Learning Approach Request PDF 	Software Engineer – Azure and Gen AI(Full-time) Oct 2021 – July 2025 <i>LТИ MINDTREE</i> Seasoned professional with over 3+ years of experience working with North American insurance clients. In these 3.7+ years of experience in this ORG I have worked in multiple projects simultaneously as a Gen AI Engineer, Python developer, Azure DevOps Engineer, Azure Administrator.

